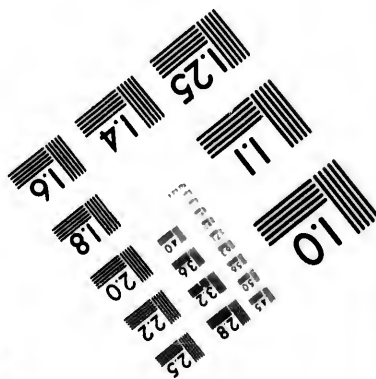
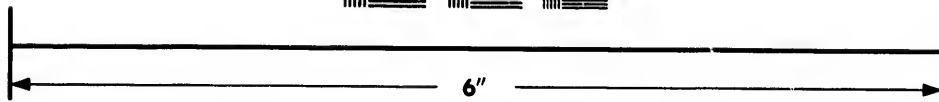
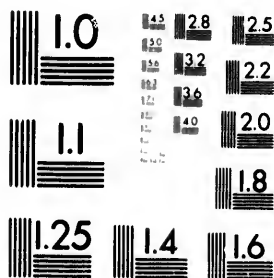


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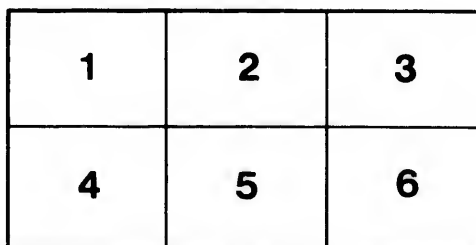
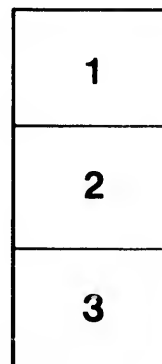
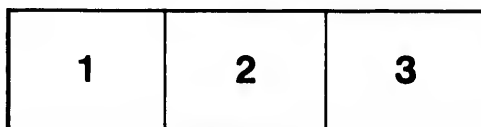
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## THE GRAMINEÆ, CYPERACEÆ AND JUNCACEÆ OF MONTREAL ISLAND.

By HAROLD B. CUSHING, B.A., and ROBERT CAMPBELL, M.A., D.D.

The following list, prepared jointly by Mr. Harold B. Cushing, B.A., and Rev. Robert Campbell, M.A., D.D., of Montreal, was communicated to the Natural History Society of Montreal on the evening of January, the 31st, 1898, by Dr. Campbell. It is the first time that a serious effort has been made to collect the local species of these three important families. The collections being continued over a period of four years, the list may be regarded as tolerably complete. The number of grasses—species and varieties—is 85, of which only 18 have been previously reported. The Cyperaceæ number 89—species and varieties—and of these only 10 have been previously reported. The Juncaceæ number 14, and none of these have been hitherto reported. In all there are 179 species and 9 varieties given in this paper, of which only 28 have been previously credited to the Island of Montreal. It may surprise some of those under whose eye this catalogue may fall, that in an island only twenty-eight miles long and nine miles wide, so many species of grasses, carices and reeds should be found. In fact, we have in the Counties of Hochelaga and Jacques Cartier an epitome of the flora of all the Eastern Provinces. The reason, doubtless, is that the insular situation of these counties, and especially their geological character—being the combined Provinces of Ontario and Quebec in miniature—peculiarly fit them, owing to the occurrence of mountains, rivers, marshes, swamps and woods close together, for affording a suitable *habitat* to the plants in question.

The nomenclature followed is that given in Britton & Brown's Flora of the United States and Canada. They have embodied in the main the determinations of the

Torrey Club, now regarded as the most eminent authority on the Flora of Eastern America. The *Gramineæ* of their publication were elaborated by Geo. V. Nash; the *Juncaceæ*, by F. V. Coville, while Prof. Bailey's conclusions were generally adopted in regard to the *Caricæ*. Wherever there has been a departure from the nomenclature of Gray's "Manual," 6th edition, the latter is placed within brackets.

## GRAMINEÆ JUSS.

## SYNTHERISMA WATT.

1. SYNTHERISMA SANGUINALIS (L.) Nash. (*Panicum sanguinale*).—Yards and roadsides. Rare.

## PANICUM L.

1. PANICUM CRUS-GALLI L.—Very common in yards and waste places. July and August.
2. PANICUM PORTERIANUM Nash. (*P. latifolium*).—Mount Royal Park and Cemetery. June.
3. PANICUM CLANDESTINUM L.—Bagg's Woods. July, 1896.
4. PANICUM XANTHOPHYSUM A. Gray.—Mount Royal Park. June.
5. PANICUM SCRIBNERIANUM Nash.—Mount Royal Park. July.
6. PANICUM DICHOTOMUM L.—Mount Royal Cemetery. Reported by Dr. Holmes as *P. nitidum*.
7. PANICUM DEPAUPERATUM Muhl.—Top of Mount Royal. 1894.
8. PANICUM MILIACEUM L.—Cote St. Paul. July 17, 1897.
9. PANICUM CAPILLARE L.—Common in yards, roadsides, lanes. August.

IXOPHORUS SCHLECHT (*Setaria*.)

1. IXOPHORUS VERTICILLATUS (L.) Nash. (*Setaria ver-*

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*ticillatus*.)—Common. Reported by Holmes and Fletcher.

2. IXOPHORUS VIRIDIS (L.) Nash. (*Setaria viridis*.)  
Common. Reported by Holmes.

3. IXOPHORUS GLAUCUS (L.) Nash. (*Setaria glauca*.)—  
Common everywhere. July and August.

4. IXOPHORUS ITALICUS (L.) Nash. (*Setaria Italica*.)  
Cote St. Antoine. 1896.

ZIZANIA L.

1. ZIZANIA AQUATICA L.—Mouth of St. Pierre River.  
August, 1895.

HOMALOCENCHRUS MIEG (*Leersia*.)

1. HOMALOCENCHRUS ORYZOIDES (L.) Poll. (*Leersia  
oryzoides*.)—St. Pierre River. August. Reported by  
Holmes.

PHALARIS L.

1. PHALARIS ARUNDINACEA L.—Mouth of St. Pierre  
River. June and July.

2. PHALARIS ARUNDINACEA PICTA L.—Cote St. Paul.  
August.

3. PHALARIS CANARIENSIS L.—Cote St. Antoine and  
city lanes. August.

SAVASTANA SCHRANK.

1. SAVASTANA ODORATA (L.) Scribn.—Savanne. June,  
1897.

STIPA L.

1. STIPA MACOUNII Scribn. (*S. Richardsonii*.) Mount  
Royal Park, near riding course. August.

ORYZOPSIS MICHX.

1. ORYZOPSIS JUNCÆA (Michx.) B. S. P.—Mount Royal  
Park. June, 1896.

2. ORYZOPSIS ASPERIFOLIA Michx.—Cemetery woods  
and north mountain. May.



3. *ORYZOPSIS MELANOCARPA* Muhl.—Woods north of riding course. August.

#### MILIUM L.

1. *MILIUM EFFUSUM* L.—Hill west of Mount Royal Cemetery gate. August.

#### MUHLENBERGIA SCHREB.

1. *MUHLENBERGIA MEXICANA* (L.) Trin.—Common on Mount Royal. August.

2. *MUHLENBERGIA RACEMOSA* (Michx. B.S.P.—Savanne, St. Michel. August, 1897.

3. *MUHLENBERGIA SYLVATICA* Torr. — Pointe-aux-Trembles and Mount Royal Park. August.

4. *MUHLENBERGIA TENUIFLORA* (Willd) B. S. P.—Bagg's woods. August. Reported by Holmes as *agrostis tenuiflora*.

#### BRACHYELYTRUM BEAUV.

1. *BRACHYELYTRUM ERECTUM* (Schreb) Beauv.—Hoche-laga woods. June. Reported by Holmes as *B. aristatum*.

#### PILEUM L.

1. *PILEUM PRATENSE* L.—Common. June and July.

#### ALOPECURUS L.

1. *ALOPECURUS GENICULATUS* L.—Swamps on Mount Royal and Annex. July. Reported by Holmes.

#### CINNA L.

1. *CINNA LATIFOLIA* (Trev.) Griseb. (*C. pendula*).—Swamp on Mount Royal. July and August.

#### AGROSTIS L.

1. *AGROSTIS ALBA* L.—Common. June and July.

2. *AGROSTIS ALBA VULGARIS* Thurber.—Common. June and July

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3. AGROSTIS PERANNENS (Watt) Tuckerm.—Swamp on Mount Royal. August.

4. AGROSTIS HYEMALIS (Watt), B. S. P. (*A. scabra*).—South mountain. August.

CALAMAGROSTIS ADAMS.

1. CALAMAGROSTIS CANADENSIS (Michx.) Beauv. (*Arundo Canadensis*).—Mount Royal. August.

2. CALAMAGROSTIS LANGSDORFII (Link) Trin. (*Arundo Langsdorfii*).—Woods west of riding course. August.

3. CALAMAGROSTIS NEGLECTA (Ehrh.) Gaertn. (*Arundo neglecta*).—Hochelaga woods. August.

HOLCUS L.

1. HOLCUS LANATUS L.—Montreal Junction. August. Reported by Holmes as *Hierochloa borealis*.

DESCHAMPSIA BEAUV.

1. DESCHAMPSIA FLEXUOSA (L.) Trin.—In Cemeteries and on Mount Royal. June and July.

ARRHENATHERUM BEAUV.

1. ARRHENATHERUM ELATIUS (L.) Beauv.—Between Pointe-aux-Trembles and Sault au Recollet. June, 1894.

DANTHONIA DC.

1. DANTHONIA SPICATA (L.) Beauv.—Abundant top of Mount Royal and Cemeteries. June.

SPARTINA SCHREB.

1. SPARTINA CYNOSUROIDES (L.) Willd.—Pointe-aux-Trembles. August. Reported by Holmes.

EATONIA RAF.

1. EATONIA PENNSYLVANICA (DC.) A. Gray.—Montreal Junction. August.

## DACTYLIS L.

1. DACTYLIS GLOMERATA L.—Common.

## CYNOSURUS L.

1. CYNOSURUS CRISTATUS L.—Rare. August. Reported by Holmes.

## POA L.

1. POA ANNUA L.—Common on roadsides, lawns. June and July.
2. POA COMPRESSA L.—Common. June and July.
3. POA PRATENSIS L.—Common. July and August. Reported by Holmes.
4. POA TRIVIALIS L.—Hochelaga bank and Bagg's woods. August.
5. POA NEMORALIS L.—Mount Royal Park and Lachine. August.
6. POA FLAVA L. (*P. serotina*).—Common in many places. Reported by Holmes as *P. serotina*.
7. POA DEBILIS Torr.—Bagg's woods. August.
8. POA ALSODES A. Gray.—Swamp north of riding course. August.

## GRAPHEPHORUM DESV.

1. GRAPHEPHORUM MELICOIDEUM (Michx) Beauv.—Hochelaga woods. August, 1897.

PANICULARIA FABR. (*Glyceria*.)

1. PANICULARIA CANADENSIS (Michx) Kuntze. (*Glyceria Canadensis*).—Common. Reported by Holmes as *Poa Canadensis*.
2. PANICULARIA ELONGATA (Torr.) Kuntze. (*Glyceria elongata*).—Common in woods. June and July.
3. PANICULARIA NERVATA (Willd) Kuntze. (*Glyceria nervata*).—Common. Reported by Holmes as *Poa nervata*.
4. PANICULARIA AMERICANA (Torr.) MacM. (*Glyceria*

*grandis*.)—In wet places. Common. Reported by Holmes as *Poa aquatica*.

5. PANICULARIA PALLIDA (Torr.) Kuntze. (*Glyceria pallida*.)—South mountain. August.

6. PANICULARIA FLUITANS (L.) Kuntze. (*Glyceria fluitans*.)—Marsh, Logan's Park. August.

FESTUCA L.

1. FESTUCA OCTOFLORA Watt. — South mountain. August.

2. FESTUCA OVINA L.—Common.

3. FESTUCA OVINA DURIUSCULA (L.) Hack.—Cemetery path. July.

4. FESTUCA SCABRELLA Torr.—South mountain. August.

5. FESTUCA ELATIOR L.—Bagg's woods. August.

BROMUS L.

1. BROMUS CILIATUS L.—Mount Royal Park, near upper reservoir. August.

2. BROMUS ASPER Murr.—Mount Royal Park, near riding course. August.

3. BROMUS STERILIS L.—Cote des Neiges road. August, 1897.

4. BROMUS KALMII A. Gray.—Mount Royal Park, near upper reservoir. August.

5. BROMUS SECALINUS L.—Cemetery and Mount Royal. August, 1897.

LOLIUM L.

1. LOLIUM PERENNE L. — Mount Royal Cemetery. August. Reported by Holmes.

AGROPYRON J. GAERTN.

1. AGROPYRON REPENS (L.) Beauv.—Too common.

2. AGROPYRON VIOLACEUM (Hornem) Vasey. — South mountain. August.

3. *AGROPYRON CANINUM* (L.) R. & B. — Mount Royal Park. August.

*HORDEUM* L.

1. *HORDEUM JUBATUM* L. — Westmount, Pointe-aux-Trembles. July. Reported by Holmes.

*ELYMUS* L.

1. *ELYMUS STRIATUS* Willd. — Mount Royal Park. August.

2. *ELYMUS VIRGINICUS* L. — Mount Royal Park, near upper reservoir. August.

3. *ELYMUS CANADENSIS* L. — Sault au Recollet. September, 1897.

4. *ELYMUS GLAUCUS* Buekl. — South mountain. August.

5. *ELYMUS ARENARIUS* L. — Shore of St. Lawrence, Point St. Charles. July, 1896.

*HYSTRIX* MOENCH. (*Asprella*.)

1. *HYSTRIX HYSTRIX* (L.) Millsp. (*Asprella Hystrix*.) Common. Reported by Holmes as *Elymus hystrix*.

CYPERACEÆ J. ST. HIL.

I. *CYPERUS* TOURN.

1. *CYPERUS DIANDRUS* Torr. — Point St. Charles. August, 1897.

2. *CYPERUS ESCULENTUS* L. — Cote St. Paul. August, 1897.

3. *CYPERUS STRIGOSUS* L. — Lachine. September, 1897.

*DULICHIMUM* L.C. RICHARD.

1. *DULICHIMUM ARUNDINACEUM* (L.) Britton. — River St. Pierre. August, 1896.

ELEOCHARIS R. BR.

1. ELEOCHARIS OVATA (Roth.) R. & S.—Hochelaga, Cote St. Paul and Annex.
2. ELEOCHARIS PALUSTRIS (L.) R. & S.—Common everywhere.
3. ELEOCHARIS ACICULARIS (L.) R. & S.—Common in swamps.
4. ELEOCHARIS TENUIS (Willd) Schultes.—Hochelaga woods, Point St. Charles. June, 1896.
5. ELEOCHARIS ACUMINATA (Muhl.) Nees. — Mount Royal Park. August, 1897.

STENOPHYLLUS RAF.

1. STENOPHYLLUS CAPILLARIS (L.) Britton. (*Fimbristylis capillaris*).—Point St. Charles. August, 1897.

SCIRPUS L.

1. SCIRPUS AMERICANUS Pers.—Point St. Charles. July, 1896. (Dr. Holmes.)
2. SCIRPUS LACUSTRIS L.—Hochelaga bank and St. Pierre River. June, 1895.
3. SCIRPUS FLUVIATILIS (Torr.) A. Gray.—Hochelaga woods. July, 1897.
4. SCIRPUS ATROVIRENS Muhl.—Common everywhere.
5. SCIRPUS MICROCARPUS Presl.—Swamp above riding course. August, 1896.
6. SCIRPUS CYPERINUS (L.) Kunth.—Swamp above riding course. September, 1897.
7. SCIRPUS CYPERINUS ERIOPHORUM (Michx) Britton.—Swamp, Pointe-aux-Trembles. September, 1896.

ERIOPHORUM L.

1. ERIOPHORUM VAGINATUM L. — Hochelaga woods. August, 1897.
2. ERIOPHORUM POLYSTACHYON L.—Pointe-aux-Trembles. August, 1896.

## CAREX L.

1. CAREX INTUMESCENS Rudge.—Mount Royal, Mile End, St. Michel. May.
2. CAREX LUPULINA Muhl.—Montreal Annex, Cote St. Paul, Hochelaga bank.
3. CAREX UTRICULATA Boott.—Marsh in Hochelaga woods and Bagg's woods. August, 1896.
4. CAREX MONILE Tuckerm.—Marsh at Pointe-aux-Trembles, August, 1897.
5. CAREX TUCKERMANI Dewey.—Mountain swamp. June. 1894.
6. CAREX RETRORSA Schwein.—Mountain swamps and Annex.
7. CAREX LURIDA PARVULA (Paine) Bailey. (*C. tentaculata*, var. *parrula*.)—Lachine. July, 1896.
8. CAREX HYSTRICINA Muhl.—Mount Royal, Hochelaga woods. June, 1894.
9. CAREX PSEUDO-CYPERUS L.—Mount Royal and Mile End. June, 1894.
10. CAREX COMOSA Boott. (*C. Pseudo-Cyperus*, var. *Americana*.)—Pointe-aux-Trembles. September, 1897.
11. CAREX ARISTATA R. Br. (*C. trichocarpa*, var. *aristata*.)—Savanne, St. Michel. July, 1896.
12. CAREX RIPARIA Curtis.—Shore of St. Lawrence, Verdun. August, 1897.
13. CAREX LANUGINOSA Michx. (*Filiformis*, var. *latifolia*.)—Mount Royal, Annex, Hochelaga.
14. CAREX STRICTA Lam.—Aqueduct, Cote St. Paul, Lachine. June, 1895.
15. CAREX STRICTA ANGUSTATA (Boott) Bailey.—Hochelaga woods. August, 1896.
16. CAREX STRICTA XEROCARPA (S. H. Wright) Britton.—Bagg's woods. September, 1897.
17. CAREX HAYDENI Dewey. (*C. stricta*, var. *decora*.)—Hochelaga swamp. July, 1896.

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18. CAREX AQUATILIS Wahl.—Swamp near Back River. August, 1897.
19. CAREX GOODENOVII J. Gay. (*C. vulgaris*).—Lachine. July. Reported by Dr. Holmes as *C. vulgaris*.
20. CAREX PRASINA Wahl.—Hochelaga bank. June, 1897.
21. CAREX CRINITA Lam.—Mount Royal, St. Anne's, Hochelaga.
22. CAREX GYNANDRA Schwein.—Woods at St. Michel. July, 1897.
23. CAREX GRACILLIMA Schwein.—Common.
24. CAREX DAVISHII Schwein.—Mount Royal. July. Reported by C. F. McCrea.
25. CAREX ARCTATA Boott.—Mount Royal, Hochelaga, Westmount, St. Anne's.
26. CAREX ARCTATA FAXONI Bailey.—Hochelaga woods. June, 1897.
27. CAREX TENUIS Rudge. (*C. debilis*, var. *Rudgei*).—Bagg's woods. July, 1896.
28. CAREX GRANULARIS Muhl.—Common in many places.
29. CAREX FLAVA L.—Mile End and Montreal Annex. June, 1895.
30. CAREX PALLESCENS L.—Mount Royal. May and June, 1895.
31. CAREX HITCHCOCKIANA Dewey. — Near riding course, June, 1895.
32. CAREX LAXIFLORA Lam.—Mount Royal and Mile End. Reported by Dr. Holmes.
33. CAREX LAXIFLORA BLANDA (Dewey) Boott.—Mount Royal and Hochelaga. May, 1895.
34. CAREX ALBURSINA Sheldon. (*C. laxiflora*, var. *latifolia*).—Mount Royal. May, 1895.
35. CAREX PLANTAGINEA Lam.—Sides of Mount Royal. May, 1895.
36. CAREX PLATYPHYLLA Carey. — North mountain. Reported by Holmes and McCrea.



37. CAREX AUREA Nutt.—Mount Royal and Cote St. Paul. May and June, 1895.
38. CAREX PEDUNCULATA Muhl.—Mount Royal and Westmount, 1894. Reported by McCrea.
39. CAREX PEDICELLATA (Dewey) Britton. (*C. communis*.)—Mount Royal, Westmount, St. Anne's.
40. CAREX PEDICELLATA WHEELERI (Bailey) Britton. (*C. communis*, var. *Wheeleri*.)
41. CAREX PENNSYLVANICA Lam.—Common in Mount Royal Park. May.
42. CAREX VARIA Muhl.—Common on Mount Royal. Reported by Dr. Holmes.
43. CAREX NOVE ANGLIÆ Schwein.—Hochelaga bank. June, 1897.
44. CAREX UMBELLATA Schk.—Mount Royal Park and Cemetery. May, 1895.
45. CAREX PUBESCENS Muhl.—Mount Royal. Rare. 1894.
46. CAREX LEPTALEA Wahl. (*C. polytrichoides*.)—Swamp on Mount Royal. May, 1894.
47. CAREX CHORDORHIZA L.—Bog, Hochelaga woods. August, 1896.
48. CAREX STIPATA Muhl.—Cote St. Paul and Mount Royal. Fairly common. June.
49. CAREX TERETIUSCULA Gooden.—Lachine. July, 1897.
50. CAREX VULPINOIDEA Michx.—Common. Reported by Holmes and McCrea.
51. CAREX TENELLA Schk.—Swamps on Mount Royal.
52. CAREX ROSEA Schk.—Common Mount Royal.
53. CAREX SPARGANIOIDES Muhl.—Near riding course. June, 1895.
54. CAREX CEPHALOPHORA Muhl.—Mount Royal, Mile End and Westmount.
55. CAREX STERILIS Willd. (*C. echinata*, var. *microstachys*.)—Common. Reported by Holmes as *C. scirpoides*.

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56. *CAREX CANESCENS* L.—Swamps on Mount Royal. June, 1894.
57. *CAREX FENEA* Willd.—Mountain swamp. July, 1897.
58. *CAREX TENUIFLORA* Wahl.—Lachine swamp. July, 1897.
59. *CAREX DEWEYANA* Schwein.—Mount Royal. Fairly abundant. Reported by Holmes and McCrea.
60. *CAREX BROMOIDES* Schk.—Hochelaga bank swamp. June, 1896.
61. *CAREX TRIBULOIDES* Wahl.—Cote St. Paul, Lachine, Bagg's woods. July.
62. *CAREX SCOPARIA* Schk.—Mount Royal, Hochelaga. Lachine. August.
63. *CAREX CRISTATELLA* Britton. (*C. tribuloides*, var. *cristata*.) Cote St. Paul. August, 1896.
64. *CAREX ADUSTA* Boott.—Montreal Annex. July, 1897.
65. *CAREX STRAMINEA* Willd.—Hochelaga, Lachine. June, 1896.
66. *CAREX TENERA* Dewey. (*C. straminea*, var. *aperta*.)—Hochelaga bank. June, 1897.
67. *CAREX FESTUCACEA* Willd. (*C. straminea*, var. *brevior*.)—Mount Royal. June, 1897.
- (The following were omitted in their proper places in the list.)
68. *CAREX HARTII* Dewey.—Mount Royal, Montreal. July, 1897.
69. *CAREX REDOWSKYANA* C. A Meyer.

JUNCACEÆ VENT.

I. *JUNCUS* L.

1. *JUNCUS EFFUSUS* L.—Mount Royal and Point St. Charles. July, 1895.

2. *JUNCUS BALTICUS* Willd. — Point St. Charles. August, 1897.
3. *JUNCUS BUFONIUS* L.—Not rare.
4. *JUNCUS TENUIS* Willd.—Common.
5. *JUNCUS DICHOTOMUS* Ell.—Lachine. August, 1897.
6. *JUNCUS MARGINATUS* Rostk.—Lachine. September, 1897.
7. *JUNCUS STYGIUS* L.—St. Michel, Savanne, 1897.
8. *JUNCUS ARTICULATUS* L.—Rockfield. July, 1897.
9. *JUNCUS RICHARDSONIANUS* Schultes.—(*Alpinus*, var. *insignis*.)—Mount Royal. 1896.
10. *JUNCUS NODOSUS* L. (Var. *genuinus*.)—Mount Royal, 1894.
11. *JUNCUS CANADENSIS* J. Gay.—Pointe-aux-Trembles.
12. *JUNCUS CANADENSIS BREVICAUDATUS* Engelm. (Var. *coarctatus*.)—Hochelaga bank, 1897.

## II. *JUNCOIDES* ADANS. (*Luzula*, D C.)

1. *JUNCOIDES PILOSUM* (L.) Kuntze. (*Luzula vernalis*.)—Mount Royal Cemetery. 1896.
2. *JUNCOIDES CAMPESTRE* (L.) Kuntze. (*Luzula campestris*.)—Mount Royal Cemetery, 1895.



